

# OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

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<b>OECD Approval Number</b>	<b>2/3 012</b>
<b>OECD Approval Date</b>	<b>16/12/2016</b>
<b>Make</b>	<b>John Deere</b>
<b>Model</b>	<b>8345R</b>
<b>Type</b>	4WD with dual rear wheels
Transmission	e23
Speed	40 km/h
Manufacturer	John Deere Tractor Works
Testing Station	NTTL – USA



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## SPECIFICATIONS

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### ENGINE

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<i>Make</i>	John Deere	
<i>Model</i>	6090RW441	
<i>Type</i>	Direct injection	
<i>Supercharging</i>	Yes	
<i>Cylinders</i>	6	
<i>Disposition</i>	in line	
<i>Capacity</i>	8984 cm <sup>3</sup>	
<i>Cooling</i>	Liquid	

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### TRANSMISSION

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<i>Gear box</i>	e23	
<i>Number of forward and reverse speeds</i>	23	12
<i>Speed at rated engine speed</i>	from 2,40	to 42,00 km/h

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### POWER TAKE-OFF SPECIFICATIONS

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<i>Standard Power take-off speed</i>	<u>540 min<sup>-1</sup></u>	<u>1000 min<sup>-1</sup></u>
<i>Power take-off speed at rated engine speed</i>		1052 min <sup>-1</sup>
<i>Diameter of the shaft</i>	<i>Not</i>	45 mm
<i>Number of splines</i>	<i>applicable</i>	20

## PTO TEST RESULTS

One hour test at maximum power

Power, Engine and Power take-off speed	256,11 kW	1750 min <sup>-1</sup>	877 min <sup>-1</sup>
Hourly and specific consumption		67,65 l/h	222 g/kWh
Hourly and specific urea consumption		1,43 l/h	6,1 g/kWh

Test at maximum power at rated engine speed

Power, Engine and Power take-off speed	226,82 kW	2099 min <sup>-1</sup>	1052 min <sup>-1</sup>
Hourly and specific consumption		62,02 l/h	229 g/kWh
Hourly and specific urea consumption		1,31 l/h	6,3 g/kWh

Test at standard Power take-off speed

Power, Engine and Power take-off speed	244,68 kW	1995 min <sup>-1</sup>	1000 min <sup>-1</sup>
Hourly and specific consumption		66,04 l/h	227 g/kWh
Hourly and specific urea consumption		1,33 l/h	5,9 g/kWh

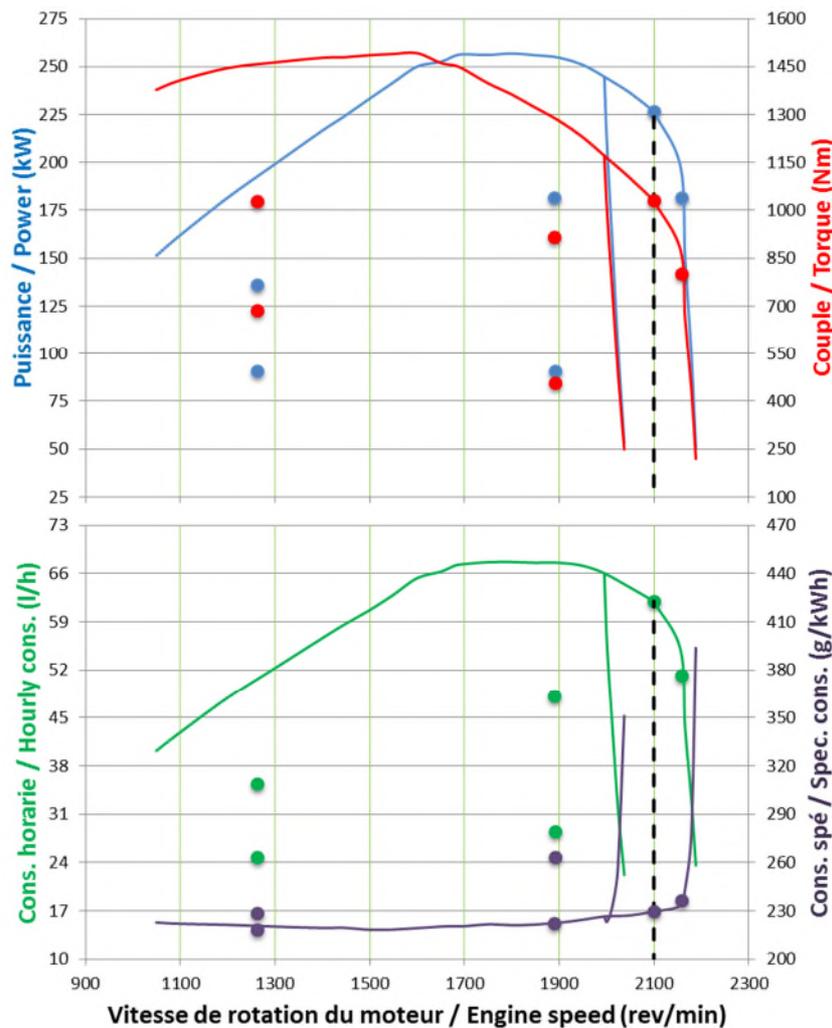
Torque rise

44,6 %

Maximum torque, Engine speed corresponding

1492 Nm

1600 min<sup>-1</sup>



## PARTICULATE FILTER ACTIVE REGENERATION FUEL USE

	l	mm:ss
Rated Engine Speed	3.2	37:33
40% of maximum power at rated engine speed with throttle set to 90% of rated engine speed	3.7	39:39
60% of maximum power at rated engine speed with throttle set to 60% of rated engine speed	2.7	39:09

## HYDRAULIC PERFORMANCE AND POWER LIFT TEST

Hydraulic system	closed centre
Relief valve pressure setting (tolerance):	20,4 ± 0,3 MPa

### HYDRAULIC PERFORMANCES

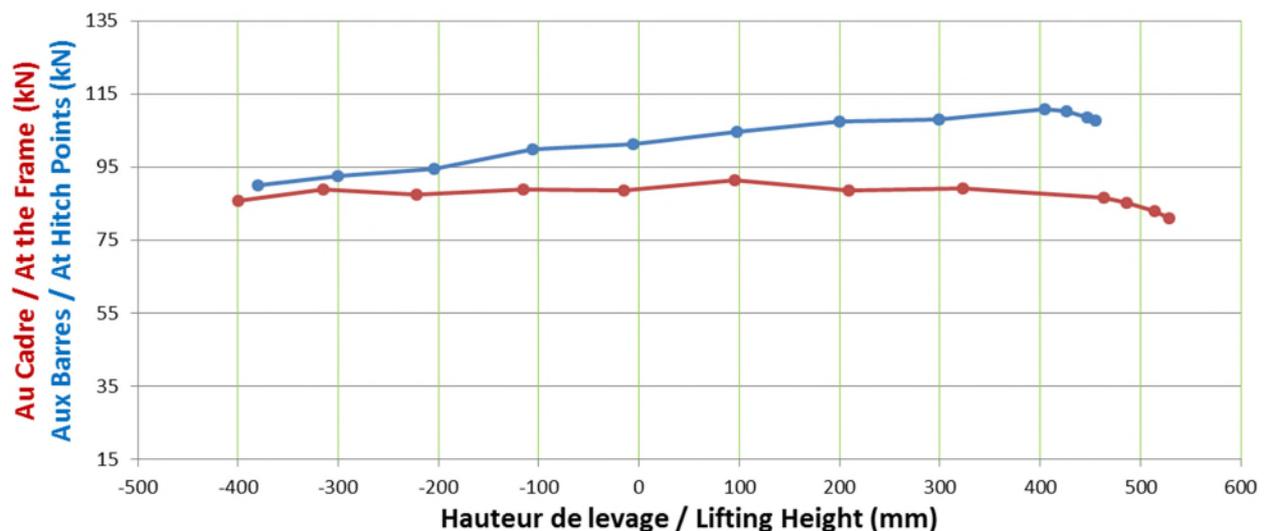
#### At maximum hydraulic power

Flow rate, Pressure, Power (couplers: 1 pair)	137,3 l/min	16,17 MPa	37,0 kW
Flow rate, Pressure, Power (couplers: 2 pairs or +)	230,7 l/min	17,69 MPa	68,0 kW

### POWER LIFT

#### Maximum lifting force

<i>at the hitch points</i>	90,0 kN
<i>at the frame</i>	81,1 kN



## DRAWBAR TEST

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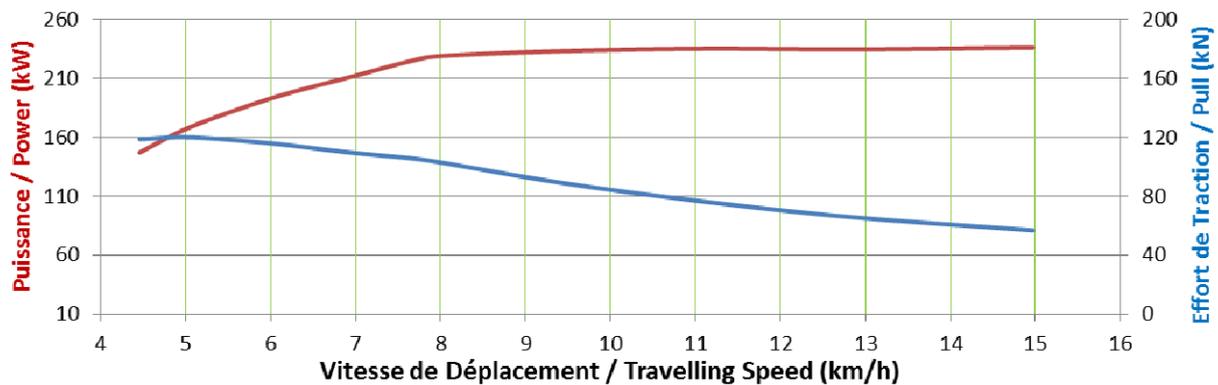
Front tyres, Rear tyres	420/85R34	480/80R50
Inflation pressure	179 kPa	83 kPa

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### UNBALLASTED

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Total Mass		12544 kg
Maximum drawbar pull at speed of		119,92 kN 5,05 km/h
Maximum power at speed of		236,03 kW 14,97 km/h




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### BALLASTED

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*Not applicable*